Please amend the claims as follows. This listing of claims will replace all prior

versions, and listings of claims in the application:

Listing of Claims:

Claim 1 (original): A method for enhancing the fabrication process of a self-

aligned contact (SAC) structure, the method comprising:

forming a transistor structure on a surface of a substrate;

forming a dielectric layer directly over the surface of the substrate without forming an

etch stop layer thereon;

plasma etching a contact hole through the dielectric layer in a plasma processing

chamber;

monitoring a bias compensation voltage of the plasma processing chamber during the

plasma etching; and

discontinuing the plasma etch process upon detecting an endpoint signaling change in

the bias compensation voltage.

Claim 2 (original): A method for enhancing the fabrication process of a self-

aligned contact (SAC) structure as recited in claim 1, wherein the endpoint signaling change

in the bias compensation voltage is detected when a portion of the surface of the substrate

underlying the contact hole is substantially exposed.

A method for enhancing the fabrication process of a self-Claim 3 (original):

aligned contact (SAC) structure as recited in claim 1, wherein the endpoint signaling change

is an expected step increase in the bias compensation voltage.

A method for enhancing the fabrication process of a self-Claim 4 (original):

aligned contact (SAC) structure as recited in claim 1, wherein forming the transistor structure

on the surface of the substrate includes,

forming a gate structure over the surface of the substrate;

forming spacers along sidewalls of the gate structure; and

forming source/drain diffusion regions into the surface of the substrate, the

source/drain diffusion regions being defined substantially outside of the spacers formed along

sidewalls of the gate structure.

A method for enhancing the fabrication process of a self-Claim 5 (original):

aligned contact (SAC) structure as recited in claim 1, wherein the dielectric layer is an

interlevel dielectric (ILD) layer.

Claim 6 (previously amended):

A method for enhancing the fabrication

process of a self-aligned contact (SAC), the method comprising:

forming a transistor structure on a substrate, the transistor structure including a gate

structure formed over a first surface of the substrate;

forming spacers along sidewalls of the gate structure;

forming source/drain diffusion regions into the first surface of the substrate, the

source/drain diffusion regions being defined substantially outside of the spacers formed along

sidewalls of the gate structure;

forming an interlevel dielectric (ILD) layer directly over the first surface of the

substrate without forming a stop layer, such that the ILD layer overlies the gate structure, the

spacers, and the first surface of the substrate;

forming a contact hole and a via hole through the ILD layer implementing a plasma

etching process such that the contact hole is defined to a top layer of the gate structure and the

via hole is defined to the source/drain diffusion regions;

monitoring a bias compensation voltage during the plasma etching process; and

discontinuing the plasma etching process when an endpoint signaling change in the

bias compensation voltage is detected.

A method for enhancing the fabrication process of a self-Claim 7 (original):

aligned contact (SAC) as recited in claim 6, wherein the endpoint signaling change in the bias

compensation voltage is detected when a portion of the top layer of the gate structure

underlying the contact hole and a portion of the source/drain diffusion regions underlying the

via hole are substantially exposed.

A method for enhancing the fabrication process of a self-Claim 8 (original):

aligned contact (SAC) as recited in claim 6, wherein the gate structure includes,

a gate oxide formed over the first surface of the substrate; and

a polysilicon gate formed over the gate oxide.

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Claim 9 (original): A method for enhancing the fabrication process of a self-

aligned contact (SAC) as recited in claim 6, wherein forming the ILD layer over the first

surface of the substrate includes,

depositing an oxide layer over the first surface of the substrate, the gate structure, and

spacers;

depositing a tetraethylorthosilicate (TEOS) layer over the oxide layer; and

depositing an oxide layer over the TEOS layer.

Claim 10 (original): A method for enhancing the fabrication process of a self-

aligned contact (SAC) as recited in claim 6, wherein forming spacers along the sidewalls of

the gate structure includes,

depositing a spacer layer over a first surface of the substrate and the gate structure;

and

performing a plasma etching process configured to define spacers along the sidewalls

of the gate structure.

Claims 11-15 (cancelled)

Claim 16 (previously amended): A method for accurately detecting a plasma etch

endpoint of a self-aligned contact (SAC), the method comprising:

providing a substrate having a transistor structure on a surface of the substrate;

forming a dielectric layer directly over the surface of the substrate without forming an

etch stop layer thereon;

inserting the substrate into a plasma etching chamber so as to plasma etch a contact

hole through the dielectric layer;

introducing etchant gases into the plasma etching chamber;

powering up the plasma etching chamber, the powering up configured to strike a

plasma so as to commence the plasma etching process;

monitoring a bias level of the plasma etching chamber during the plasma etching

process; and

discontinuing the plasma etching process when an endpoint signaling change in the

bias compensation voltage is detected.

Claim 17 (original): A method for accurately detecting a plasma etch endpoint of a

self-aligned contact (SAC) as recited in claim 16, wherein the endpoint signaling change in

the bias compensation voltage is detected when a portion of the surface of the substrate

underlying the contact hole is substantially exposed.

Claim 18 (original): A method for accurately detecting a plasma etch endpoint of a

self-aligned contact (SAC) as recited in claim 16, wherein the endpoint signaling change is an

expected step increase in the bias compensation voltage.

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Claim 19 (original): A method for accurately detecting a plasma etch endpoint of a self-aligned contact (SAC) as recited in claim 16, wherein the dielectric layer is an interlevel

dielectric (ILD) layer.

Claim 20 (original): A method for accurately detecting a plasma etch endpoint of a

self-aligned contact (SAC) as recited in claim 17, wherein the portion of the surface of the

substrate underlying the contact hole is a gate structure.

Claim 21 (previously added): A method for enhancing the fabrication process of a

self-aligned contact (SAC) structure, the method comprising:

forming a transistor structure on a surface of a substrate;

forming a dielectric layer directly over the surface of the substrate without forming an

etch stop layer thereon;

plasma etching a contact hole through the dielectric layer in a plasma processing

chamber;

monitoring a bias compensation voltage of the plasma processing chamber during the

plasma etching; and

discontinuing the plasma etch process upon detecting an endpoint signaling change in

the bias compensation voltage,

wherein the endpoint signaling change in the bias compensation voltage is detected

when a portion of the surface of the substrate underlying the contact hole is substantially

exposed.

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